



Commercial Subscribers: Determining Sensitive Element Occurrences on Selected Quads Using ArcGIS

This topic is basically about Relating and Joining tables in ArcGIS ArcMap. If you have never done this before, please read about this topic in the ArcGIS Help documentation. If you prefer, a relate can also be done in ArcView 3.x or even a relational database application such as Microsoft Access.

If you want to view a complete list of the Element Occurrences (EOs) that are Sensitive in the CNDDDB, they are in the INFO table **elmo.df**. You can view this table in ArcMap by following the instructions below. You can also export this table from ArcCatalog to a DBF format and import it into Microsoft Access, as this is really a relational database activity being done in GIS software.

Basically, you are going to relate the quads layer to a linking table (**senquad.lnk**) which in turn you will link to elmo.df. The elmo.df INFO table is a file that we distribute to our commercial subscribers so that they can find out which Element Occurrences are on the quads which are flagged "Sensitive."

Instructions in ArcGIS

1. Open the CNDDDB83.mxd file in ArcMap 8.3, or the CNDDDB90.mxd file in ArcMap 9.x.
2. Turn off all layers except the 7.5 Quads with Sensitive EOs.
3. In the Table of Contents (the left side of the map document) click on the "Source" tab.
4. Now, add some INFO tables:
 - a. Click on the "+" to add more data.
 - b. Navigate to the C:\CNDDDB3\gis directory and add "senquad.lnk".
 - c. Then add "elmo.df".
5. Next, establish some relationships:
 - a. In the Table of Contents, right-click on the 7.5 Quads with Sensitive EOs layer and select "Joins and Relates > Relate..."
 - b. Make these selections in the numbered sections:
 - 1) QUADCODE
 - 2) senquad.lnk
 - 3) QUADCODE
 - 4) To senquad
 - c. Click "OK".
 - d. Right-click on the senquad.lnk table, and select "Joins and Relates > Relate..."
 - e. Make these selections in the numbered sections:
 - 1) MAPNDX
 - 2) elmo.df
 - 3) MAPNDX
 - 4) To elmo
6. Using the Select Features tool, select quads in the 7.5 Quads with Sensitive EOs layer.
7. Right-click on the layer and open the attribute table.
8. Click on Options > Related Tables, and select the relate: To senquad. The senquad.lnk table will open and there will be some records selected.
9. In the senquad.lnk table, click on Options > Related Tables, and select: To elmo. The elmo table will open and there will be some records selected. These records are the Element Occurrences that are "Sensitive" in RareFind/CNDDDB that are located somewhere in the Quads that you selected.

You can save the Map Document and the relates will be there to use until you remove them or replace/remove the Map Document.